**AMENDMENTS TO THE CLAIMS** 

Listing of claims:

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended) A differential pressure control valve of pilot-operated type for

controlling a flow rate of fluid so that a differential pressure between inlet and outlet sides of the

fluid may become equal to a differential pressure set by a value of electric current passed through

a solenoid thereof, comprising:

characterized in that a diaphragm is arranged at a sliding portion on an outer periphery of a

main valve piston for opening and closing a main valve element of a main valve, to completely

prevent the fluid from leaking through the sliding portion,

wherein the main valve piston has an orifice in order to allow passage of the fluid through

the main valve piston, and

wherein the diaphragm comprises a polyimide film.

2. (Currently Amended) The differential pressure control valve according to claim 1,

<del>characterized in that</del> wherein the diaphragm comprises a film shaped into annular form, the

annular film having an inner peripheral edge portion clamped between the main valve piston and

a fixing ring secured to the main valve piston, and an outer peripheral edge portion clamped

between a body containing the main valve piston and a cylindrical member which is secured to

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the body and which slidably receives the main valve piston.

3. (Cancelled)

4. (Currently Amended) The differential pressure control valve according to claim 2,

characterized in that wherein the main valve piston is formed integrally with the main valve

element as a one-piece body, and wherein said has an orifice connects connecting a space in

which the fluid is introduced to a piston chamber located on one side thereof opposite the main

valve element, pressure in the piston chamber being controlled by a pilot valve arranged between

the piston chamber and a space located on a downstream side of the main valve, to thereby

control valve lift of the main valve.

5. (Withdrawn/Currently Amended) The differential pressure control valve according to claim 2,

eharacterized in that wherein the main valve piston is fixed to the main valve element by a shaft

inserted through a valve hole of the main valve, and wherein said has an orifice connects

connecting a space located on a downstream side of the main valve to a piston chamber located

on one side thereof opposite the main valve element, pressure in the piston chamber being

controlled by a pilot valve arranged between a space in which the fluid is introduced and the

piston chamber, to thereby control valve lift of the main valve.

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